

# Pediatric Cardioversion

## Energy Selection Physio-Control LifePak 12 and LifePak 15

COLOR		First	Second/Third
Gray	3kg	3 J	6 J
	4kg	4 J	8 J
	5kg	5 J	10 J
Pink		7 J	15 J
Red		9 J	20 J
Purple		10 J	20 J
Yellow		15 J	30 J
White		15 J	50 J
Blue		20 J	50 J
Orange		30 J	50 J
Green		30 J	70 J



# Pediatric Defibrillation

## Energy Selection Physio-Control LifePak 12 and LifePak 15

COLOR		First	Second/Third
Gray	3kg	6 J	12 J
	4kg	8 J	15 J
	5kg	10 J	20 J
Pink		15 J	30 J
Red		20 J	50 J
Purple		20 J	50 J
Yellow		30 J	50 J
White		30 J	70 J
Blue		50 J	100 J
Orange		50 J	100 J
Green		70 J	150 J



# Pediatric Weight Conversion

**Always document weight in kg**

COLOR	Kilograms	Pounds
Gray	3 – 5 kg	6 -11 lbs
Pink	6 – 7 kg	13 – 15 lbs
Red	8 – 9 kg	17 – 20 lbs
Purple	10 – 11 kg	22 – 25 lbs
Yellow	12 – 14 kg	27 – 32 lbs
White	15 – 18 kg	34 – 41 lbs
Blue	19 – 23 kg	42 – 52 lbs
Orange	24 – 29 kg	54 – 65 lbs
Green	30 – 36 kg	37 – 80 lbs



# Adenosine

**Indication: SVT**  
**Concentration = 3 mg/ml**

COLOR		Dose (mg)	Give (ml)	Dose (mg)	Give (ml)
Gray	3kg	0.3 mg	0.1 ml	0.6 mg	0.2 ml
	4kg	0.4 mg	0.13 ml	0.8 mg	0.26 ml
	5kg	0.5 mg	0.17 ml	1.0 mg	0.34 ml
Pink		0.65 mg	0.22 ml	1.3 mg	0.44 ml
Red		0.85 mg	0.28 ml	1.7 mg	0.57 ml
Purple		1 mg	0.34 ml	2mg	0.66 ml
Yellow		1.3 mg	0.44 ml	2.6 mg	0.86 ml
White		1.7 mg	0.57 ml	3.4 mg	1.14 ml
Blue		2.1 mg	0.7 ml	4.2 mg	1.4 ml
Orange		2.7 mg	0.9 ml	5.4 mg	1.8 ml
Green		3.3 mg	1.1 ml	6 mg	2 ml

Note: Immediately follow with a rapid 10-20ml NS bolus.



# Albuterol

## Indication: Respiratory Distress

Concentration = 2.5 mg/3 ml

COLOR		Doses (mg)	Give (ml)
Gray	3kg	2.5 mg	3ml
	4kg	2.5 mg	3ml
	5kg	2.5 mg	3ml
Pink		2.5 mg	3ml
Red		2.5 mg	3ml
Purple		2.5 mg	3ml
Yellow		2.5 mg	3ml
White		2.5 mg	3ml
Blue		2.5 mg	3ml
Orange		2.5 mg	3ml
Green		2.5 mg	3ml



# Albuterol MDI with Spacer

## Indication: Respiratory Distress

Max Dose = Up to 8 puffs in 20 minutes

COLOR		Dose (every 5 min)	Spacer Color
Gray	3kg	2 puffs	Orange
	4kg	2 puffs	Orange
	5kg	2 puffs	Orange
Pink		2 puffs	Orange
Red		2 puffs	Yellow
Purple		2 puffs	Yellow
Yellow		2 puffs	Yellow
White		2 puffs	Blue
Blue		2 puffs	Blue
Orange		2 puffs	Blue
Green		2 puffs	Blue



# Atropine

**Indication: Organophosphate Exposure/Poisoning**  
**Concentration = 0.1 mg/ml**

COLOR		Doses (mg)	Give (ml)
Gray	3kg	0.5 mg	5 ml
	4kg	0.5 mg	5 ml
	5kg	0.5 mg	5 ml
Pink		0.5 mg	5 ml
Red		0.5 mg	5 ml
Purple		2 mg	20 ml
Yellow		2 mg	20 ml
White		2 mg	20 ml
Blue		2 mg	20 ml
Orange		2 mg	20 ml
Green		2 mg	20 ml



# Calcium Chloride

## Indication: Arrhythmia

Concentration = 1 g/10 ml



\* BASE HOSPITAL ORDER REQUIRED

COLOR		Doses (mg)	Give (ml)
Gray	3kg	60 mg*	0.6 ml*
	4kg	80 mg*	0.8 ml*
	5kg	100 mg*	1 ml*
Pink		120 mg*	1.2 ml*
Red		160 mg*	1.6 ml*
Purple		200 mg*	2 ml*
Yellow		240 mg*	2.4 ml*
White		300 mg*	3 ml*
Blue		380 mg*	3.8 ml*
Orange		480 mg*	4.8 ml*
Green		600 mg*	6 ml*





# Dopamine

## Indication: Arrhythmia

Concentration = 800 mcg/ml

COLOR		Doses (mg)	Give (ml)
Gray	3kg	Base Hospital Order Required	Base Hospital Order Required
	4kg		
	5kg		
Pink		Base Hospital Order Required	Base Hospital Order Required
Red		Base Hospital Order Required	Base Hospital Order Required
Purple		Base Hospital Order Required	Base Hospital Order Required
Yellow		Base Hospital Order Required	Base Hospital Order Required
White		Base Hospital Order Required	Base Hospital Order Required
Blue		Base Hospital Order Required	Base Hospital Order Required
Orange		Base Hospital Order Required	Base Hospital Order Required
Green		Base Hospital Order Required	Base Hospital Order Required



# Dextrose 10%

**Indication: Hypoglycemia**  
**Concentration = 0.1 g/ml**

COLOR		Doses (g)	Give (ml)
Gray	3kg	1.5 g	15 ml
	4kg	2 g	20 ml
	5kg	2.5 g	25 ml
Pink		3.2 g	32 ml
Red		4.2 g	42 ml
Purple		5.2 g	52 ml
Yellow		6.5 g	65 ml
White		8.2 g	82 ml
Blue		10 g	100 ml*
Orange		10 g	100 ml*
Green		10 g	100 ml*

Note: \*A repeat dose equal to the initial dose and be required based on repeat BGL.



# Diphenhydramine

## Indication: Allergic Reaction

Concentration = 50 mg/ml



**\*REQUIRES BASE HOSPITAL ORDER**

COLOR		Doses (mg)	Give (ml)
Gray	3kg	3 mg*	0.06 ml*
	4kg	4 mg*	0.08 ml*
	5kg	5 mg*	0.1 ml*
Pink		6.5 mg	0.13 ml
Red		8.5 mg	0.17 ml
Purple		10 mg	0.2 ml
Yellow		13 mg	0.26 ml
White		17 mg	0.34 ml
Blue		21 mg	0.42 ml
Orange		27 mg	0.54 ml
Green		33 mg	0.66 ml

Note: Utilize Epinephrine 1: 1,000 IM first if patient is in anaphylaxis.  
Consider giving one-half dose Diphenhydramine if patient has taken or been given full dose within one hour.



# Epinephrine 1:1,000 IM

## Indication: Anaphylaxis and Severe Asthma

**NEVER GIVE EPINEPHRINE 1:1,000 VIA IV ROUTE**

**Concentration = 1 mg/ml**

**Maximum Dose = 0.3mg IM**

COLOR		Doses (mg)	Give (ml)
Gray	3kg	0.03 mg	0.03 ml
	4kg	0.04 mg	0.04 ml
	5kg	0.05 mg	0.05 ml
Pink		0.06 mg	0.06 ml
Red		0.08 mg	0.08 ml
Purple		0.1 mg	0.1 ml
Yellow		0.13 mg	0.13 ml
White		0.15 mg	0.15 ml
Blue		0.15 mg	0.15 ml
Orange		0.15 mg	0.15 ml
Green		0.3 mg	0.3 ml

Note: Subcutaneous administration of Epinephrine 1:1,000 is no longer authorized.



# Epinephrine 1:1,000 NEBULIZED

**Indication: Stridor**  
**Concentration = 1 mg/ml**  
**Maximum Dose = 5 mg Nebulized**

COLOR		Doses (mg)	Give (ml)
Gray	3kg	1.5 mg	1.5 ml
	4kg	2 mg	2 ml
	5kg	2.5 mg	2.5 ml
Pink		3 mg	3 ml
Red		4 mg	4 ml
Purple		5 mg	5 ml
Yellow		5 mg	5 ml
White		5 mg	5 ml
Blue		5 mg	5 ml
Orange		5 mg	5 ml
Green		5 mg	5 ml



# Epinephrine 1:10,000

## Indication: Cardiac Arrest

Concentration = 0.1 mg/ml

Maximum = 3mg total

COLOR		Doses (mg)	Give (ml)
Gray	3kg	0.03 mg	0.3 ml
	4kg	0.04 mg	0.4 ml
	5kg	0.05 mg	0.5 ml
Pink		0.065 mg	0.65 ml**
Red		0.085 mg	0.85 ml**
Purple		0.1 mg	1 ml
Yellow		0.13 mg	1.3 ml
White		0.17 mg	1.7 ml
Blue		0.21 mg	2.1 ml
Orange		0.27 mg	2.7 ml
Green		0.33 mg	3.3 ml

Note: Epinephrine 1:10,000 is also used in anaphylactic shock if IM treatment is ineffective.

\*\* In anaphylactic shock:

- Patients under 10kg receive same dose as used for cardiac arrest
- For patients  $\geq$  10kg, administer in 0.1mg increments (1ml).



# Fentanyl (IM/IV/IO)

## Indication: Pain Management

Concentration = 50 mcg/ml

**IV/IO – May repeat 5 minutes apart to max dose of 3mcg/kg**

**IM – May repeat once after 10 minutes to max of 3mcg/kg**



**\*REQUIRES BASE HOSPITAL ORDER**

COLOR		Doses (mcg)	Give (ml)
Gray	3kg	3 mcg*	0.06 ml*
	4kg	4 mcg*	0.08 ml*
	5kg	5 mcg*	0.1 ml*
Pink		6 mcg*	0.12 ml*
Red		8.5 mcg	0.17 ml
Purple		10 mcg	0.2 ml
Yellow		13 mcg	0.26 ml
White		17 mcg	0.34 ml
Blue		20 mcg	0.4 ml
Orange		25 mcg	0.5 ml
Green		25 mcg	0.5 ml



# Fentanyl (IN)

## Indication: Pain Management

Concentration = 50 mcg/ml

**Single dose only – Repeat doses require Base Hospital order**



**\*BASE HOSPITAL ORDER REQUIRED**

COLOR		Doses (mcg)	Give (ml)
Gray	3kg	6 mcg*	0.12 ml*
	4kg	8 mcg*	0.16 ml*
	5kg	10 mcg*	0.2 ml*
Pink		12 mcg*	0.24 ml*
Red		17 mcg	0.34 ml
Purple		20 mcg	0.4 ml
Yellow		26 mcg	0.52 ml
White		34 mcg	0.68 ml
Blue		40 mcg	0.8 ml*
Orange		50 mcg	1 ml*
Green		50 mcg	1 ml*

Note: \*Doses greater than 25 mcg (0.5ml) can be titrated to effect beginning with 25 mcg increments.





# Fluid Bolus

**Indication: Shock/Hypotension**  
**Maximum single bolus = 500ml**

COLOR		Give (ml)
Gray	3kg	30 ml
	4kg	40 ml
	5kg	50 ml
Pink		130 ml
Red		170 ml
Purple		210 ml
Yellow		260 ml
White		325 ml
Blue		420 ml
Orange		500 ml
Green		500 ml



# Glucagon

**Indication: Hypoglycemia**  
**Concentration = 1 mg/ml**

COLOR		Doses (mg)	Give (ml)
Gray	3kg	0.5 mg	0.5 ml
	4kg	0.5 mg	0.5 ml
	5kg	0.05 g	0.5 ml
Pink		0.5 mg	0.5 ml
Red		0.5 mg	0.5 ml
Purple		0.5 mg	0.5 ml
Yellow		0.5 mg	0.5 ml
White		0.5 mg	0.5ml
Blue		1 mg	1 ml
Orange		1 mg	1 ml
Green		1 mg	1 ml



# Levalbuterol

## Indication: Respiratory Distress

Concentration = varies

COLOR		Doses (mg)	Give (ml)
Gray	3kg	1.25 mg	Verify concentration
	4kg	1.25 mg	Verify concentration
	5kg	1.25 mg	Verify concentration
Pink		1.25 mg	Verify concentration
Red		1.25 mg	Verify concentration
Purple		1.25 mg	Verify concentration
Yellow		1.25 mg	Verify concentration
White		1.25 mg	Verify concentration
Blue		1.25 mg	Verify concentration
Orange		1.25 mg	Verify concentration
Green		1.25 mg	Verify concentration



# Lidocaine for IO

**Indication: IO Anesthetic**  
**(Not for patients in cardiac arrest)**  
**Concentration = 2% (100mg/5ml)**

COLOR		Doses (mg)	Give (ml)
Gray	3kg	1.5 mg	0.07 ml
	4kg	2 mg	0.1 ml
	5kg	2.5 mg	0.12 ml
Pink		3.2 mg	0.16 ml
Red		4.2 mg	0.21 ml
Purple		5 mg	0.25 ml
Yellow		6.5 mg	0.32 ml
White		8.5 mg	0.42ml
Blue		10 mg	0.5 ml
Orange		14 mg	0.7 ml
Green		16.5 mg	0.82 ml



# Lidocaine

## Indication: V-Fib

Concentration = 20 mg/ml

**May repeat once after 15 minutes**

COLOR		Doses (mg)	Give (ml)
Gray	3kg	3 mg	0.15 ml
	4kg	4 mg	0.2 ml
	5kg	5 mg	0.25 ml
Pink		6.5 mg	0.33 ml
Red		8.5 mg	0.43 ml
Purple		10 mg	0.5 ml
Yellow		13 mg	0.65 ml
White		17 mg	0.85 ml
Blue		20 mg	1 ml
Orange		28 mg	1.4 ml
Green		33 mg	1.7 ml



# Midazolam (IV/IO)

## Indication: Sedation for Cardioversion Concentration = 5 mg/ml

COLOR		Doses (mg)	Give (ml)
Gray	3kg	0.3 mg	0.06 ml
	4kg	0.4 mg	0.08 ml
	5kg	0.5 mg	0.1 ml
Pink		0.6 mg	0.12 ml
Red		0.8 mg	0.16 ml
Purple		1 mg	0.2 ml
Yellow		1.3 mg	0.26 ml
White		1.6 mg	0.32 ml
Blue		2 mg	0.4 ml
Orange		2 mg	0.4 ml
Green		2 mg	0.4 ml

Note: Titrate dosage in 0.5 – 1mg increments to desired effect (seizure cessation) or 5mg maximum dose.



# Midazolam (IN/IM)

**Indication: Seizure/Sedation for Cardioversion**  
**Concentration = 5 mg/ml**

COLOR		Doses (mg)	Give (ml)
Gray	3kg	0.6 mg	0.12 ml
	4kg	0.8 mg	0.16 ml
	5kg	1 mg	0.2 ml
Pink		1.2 mg	0.24 ml
Red		1.6 mg	0.32 ml
Purple		2 mg	0.4 ml
Yellow		2.6 mg	0.52 ml
White		3.2 mg	0.64 ml
Blue		4 mg	0.8 ml
Orange		5 mg	1 ml
Green		5 mg	1 ml



# Naloxone

## Indication: Respiratory Depression

Concentration = 1 mg/ml

Maximum single dose = 2mg

COLOR		Doses (mg)	Give (ml)
Gray	3kg	0.3 mg	0.3 ml
	4kg	0.4 mg	0.4 ml
	5kg	0.5 mg	0.5 ml
Pink		0.64 mg	0.64 ml
Red		0.85 mg	0.85 ml
Purple		1 mg	1ml
Yellow		1.3 mg	1.3 ml
White		1.6 mg	1.6 ml
Blue		2 mg	2 ml
Orange		2 mg	2 ml
Green		2 mg	2 ml

Note: Naloxone is available in multiple concentrations. This chart is intended for a 1mg/ml concentration.





# Ondansetron ODT

## Indication: Nausea/Vomiting

Concentration = 4mg tablet

Maximum single dose = 4mg

COLOR		Doses (mg)	Give (ml)		
Gray	3kg	<b>NOT INDICATED</b>			
	4kg				
	5kg				
Pink					
Red					
Purple				2mg	½ tablet
Yellow		2mg	½ tablet		
White		2 mg	½ tablet		
Blue		4 mg	1 tablet		
Orange		4 mg	1 tablet		
Green		4 mg	1 tablet		

Note: Ondansetron is not indicated for motion sickness.



# Ondansetron

## Indication: Nausea/vomiting

Concentration = 2 mg/ml

Maximum single dose = 4mg



\* BASE HOSPITAL ORDER REQUIRED

COLOR		Doses (mg)	Give (ml)
Gray	3kg	3 mEq*	3 ml*
	4kg	4 mEq*	4 ml*
	5kg	5 mEq*	5 ml*
Pink		6 mEq*	6 ml*
Red		8 mEq*	8 ml*
Purple		2 mg	1 ml
Yellow		2 mg	1 ml
White		2 mg	1 ml
Blue		4 mg	2 ml
Orange		4 mg	2 ml
Green		4 mg	2 ml

Note: Ondansetron is not indicated for motion sickness. May be repeated x1 for patients  $\geq$  40kg.



# Sodium Bicarbonate

## Indication: Arrythmia/Crush Injury

Concentration = 50 mEq/50 ml



\* BASE HOSPITAL ORDER REQUIRED

COLOR		Doses (mg)	Give (ml)
Gray	3kg	3 mEq*	3 ml*
	4kg	4 mEq*	4 ml*
	5kg	5 mEq*	5 ml*
Pink		6 mEq*	6 ml*
Red		8 mEq*	8 ml*
Purple		10 mEq*	10 ml*
Yellow		12 mEq*	12 ml*
White		15 mEq*	15 ml*
Blue		19 mEq*	19 ml*
Orange		24 mEq*	24 ml*
Green		30 mEq*	30 ml*

